UHF Wireless
Portable Sound System

GPA-800W

【USER MANUAL】

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Preface

GPA-800W, the wireless portable PA system, features a sturdy, lightweight and compact solution for sound specialist. The system is constructed by an effective 100 W (RMS) power output, and capable to play both of CD and MP3 file style; additionally, GPA-800W supports maximum two sets of wireless microphone receivers which include individual frequency adjustors and volume control for the great conveniency of your application.

The system is powered by the built-in batteries (4.5Ah x 2pcs) and intelligent power adopter which can connect with the worldwide AC power directly; it can last 4~6 hours when the batteries are fully charged. GPA-800W is mobile by the strong trolley, and power-efficient to support quality performance for both of music and speech application in a wide range.

System Features

- 100 W (RMS) powerful output
- Class-D audio power amplifier
- 10" woofer and 1" tweeter deliver clear and quality sound
- 100 ~ 240 V AC / 32 V DC switching power supply
- Built-in charger and sealed lead-acid batteries installed
- Runs 4~6 hours on a charge
- Installed receivers and CD player with LCD readout and back-lit
- UHF receiver offers max. 96 selectable channels
- Voice priority available
- Two mic inputs available
- Dual line input and line output
- Aux input and aux output available
- Optional and versatile modules help building up perfect system to meet most PA application
- Handle with trolley
- Reach crowds of 1,000+

GPA-800W System Elements

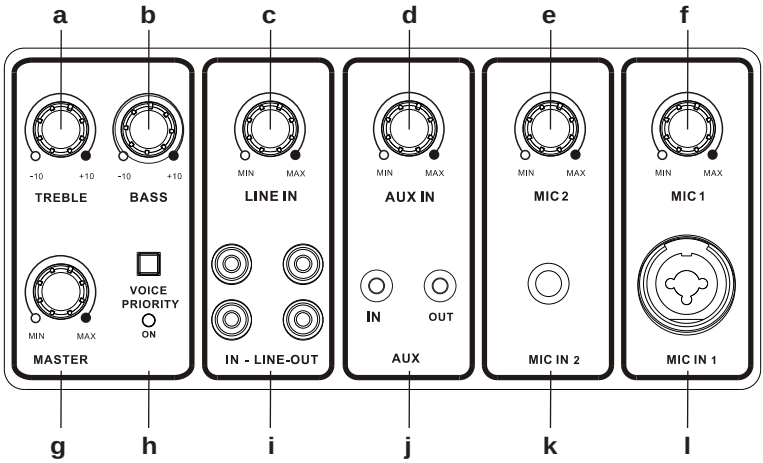
Figure 1: Front Side

1. Handle
2. Horn Tweeter
3. Speaker Grill
4. Driver
5. Ventilator

Figure 2: Rear Side

1. Returnable Trolley Handle
2. Optional UHF Wireless Receiver
3. Optional CD/MP3 Player
4. Main Power Switch and Charging Indicator (Optional Transmitter / Reverb / Feedback module)
5. Master Control Panel
6. AC Power Input
7. Battery Cover
8. Trolley PU Wheels

Operation of Master Control Panel



a. TREBLE control ※

b. BASS control ※

c. LINE IN volume control

d. AUX IN volume control

e. MIC2 volume control

f. MIC1 volume control

g. MASTER control for overall system volume

h. VOICE PRIORITY button to activate or end the microphone priority function
e.g. LED lights red meaning the system under voice priority function

i. LINE-IN (RCA phone jack) to connect with external music sources including CD / MP3 / DVD / iPod players etc.
LINE OUT (RCA phone jack) to connect with external mixed-signal recorder or active speaker system

j. AUX IN (3.5mm jack) to connect with external music sources including CD / MP3 DVD / iPod players etc.
AUX OUT (3.5mm jack) to connect with external mixed-signal recorder or active speaker system

k. MIC IN 2 (6.3mm jack) microphone connector

l. MIC IN 1 (XLR / 6.3mm jack) combo microphone connector

※ Set in the middle to keep preforming the original sound signal

Operation of Power Supply

Powered by Alternating Current or Rechargeable Batteries

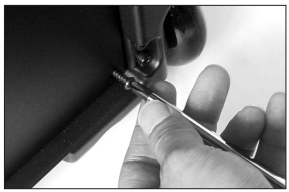
- The GPA-800W system can be powered by connecting the system with your mains electricity via the provided power cable and internal 100-240V switching adapter or the built-in rechargeable batteries.
- The built-in batteries are recharged automatically when connecting the GPA-800W system with the mains electricity. The charging indicator lights red when the battery is being charged, and lighting greenly when the battery is fully charged.

Warning	※ To prevent damages to the batteries and effectively extend the battery life, the user should recharge the batteries last for 8 hours when using the system at the first time or already does not use the system for over 3 months.

When the system is powered by the built-in batteries, the charging indicator shows the current power status:

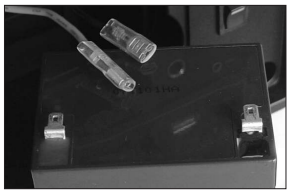
- Power last more than 30% of battery capacity: red light
- Power lower than 30% of battery capacity: flash red
- Power lower than 5% of battery capacity: system off automatically

Battery Replacement



- Unscrew the battery cover

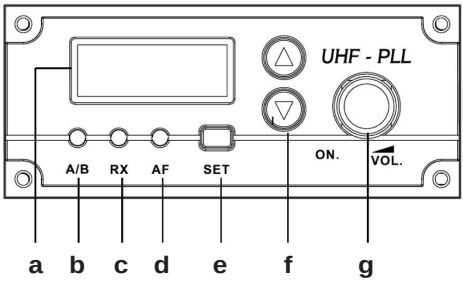
- Take the batteries out



- Connect the battery power lead with the new batteries:
  Red lead: (+)
  Black lead: (-)

- Place the battery back and screw the battery cover

DR-701 UHF Wireless Receiver Module



a. LCD (ch. & freq. displayed)
b. A/B antenna reception indicator
c. Selected channel reception indicator
d. Audio signal reception indicator
e. Frequency SET
f. Channel UP/DOWN
g. VOLUME/POWER control

Operation Indication of DR-701

1. Turn the VOLUME / POWER control (g) clockwise till a "click" to power on, and the LCD (a) will be lighted up and displayed the current channel; turn the VOLUME / POWER control (g) counterclockwise till a "click" to power off.

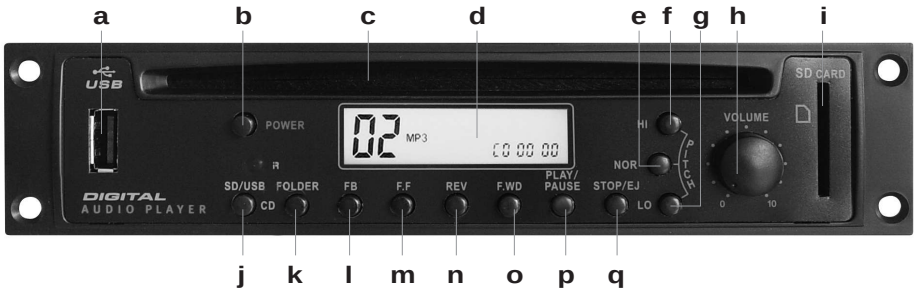
2. Channel setting:

Press SET button (e) for 1 sec., choose the preferred channel (CH1 ~ CH96) by pressing △UP / ▽DOWN button (f), and then press SET button again to fix the chosen channel.

* When two receivers are used concurrently, make sure they are set on different channels.

3. Press △UP / ▽ DOWN button (f) to see the current frequency on LCD (a).

CD-750S CD/MP3 Music Player



a. USB port: connect with the USB source
b. POWER: turn on the CD-750S music player
c. CD slot: insert 12cm CD / CD-R / CD-RW
d. LCD: track number / time duration / music source / mode / status displayed
e. NOR: to return the original music speed (pitch)
f. HI: increase the music speed (pitch), with 10 steps for speed changing
g. LO: decrease the music speed (pitch), with 10 steps for speed changing
h. VOLUME: volume control
i. SD CARD slot: insert the SD memory card
j. SD / USB / CD: switch the playing music source from SD / USB / CD
k. FOLDER: select the different folder from the current playing music source
l. FB: fast reverse
m. F.F: fast forward
n. REV: back to the previous track
o. F.WD: reverse to the next track
p. PLAY/PAUSE
q. STOP/EJ: press twice to stop music playing; triple press to eject the CD

Remote Control fo CD-750S

1. Open the CD-ROM: press [⏏] one time to eject CD, press again to pull CD in automatically.
2. Programming an individual title sequence:
   - When playing standard music CD, press [PROG] in advance to start your track selection from numeric keys [0] ~ [9], and press [↵] to confirm you selection. Continue this action until all selected tracks are memorized, then press [▶II] to play your selection.
   - Press [PROG] twice to cancel the memory.
3. Playing tracks in a random order: press [RAN], and the LCD displays "SHUFFLE" to start playing tracks randomly. Press [▶▶I] to previous/ [I◀◀] next track.
4. Repeating the selection:
   - When playing CD music, press [RAN] one time to active "REPEAT ALL" for all tracks playing repeatedly; press [RAN] two times for "REPEAT 1" to repeat playing the selected single track only.
     Then press [RAN] again to cancel the selected repeat function.
   - When playing MP3 music in compressed audio files, press [RAN] one time for "REPEAT ALL", two times for "REPEAT FOLDER", three times for "REPEAT 1".
     Then press [RAN] again to cancel the selected repeat function.
5. [0] ~ [9] Numeric keys for track number selection.
6. [FOLDER] Folder selection
7. [▶II] Play / pause
8. [■] Stop
9. [▶▶I] Back to the previous track
10. [I◀◀] Jump to the next track
11. [◀◀] Fast reverse; press again back to the standard speed.
12. [▶▶] Fast forward; press again back to the standard speed.
13. [CD/USB/SD] Switching from different music source CD->USB->SD; press [▶II] to confirm the selected music source.

14. A→B Replay a selected section of track. Press one time to start the point of section, press second time to end the selected point and start to play this section repeatedly.
Press A→B again to cancel the function.

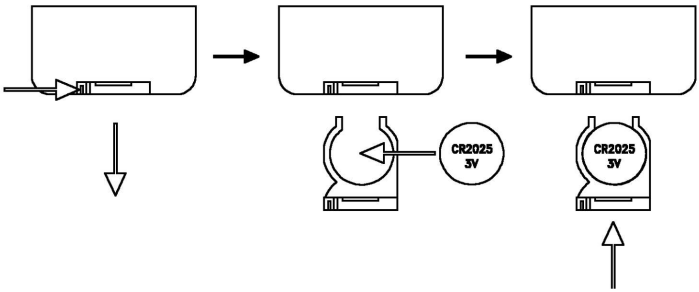
15. Mute; press again back to the normal mode.

16. To confirm the selected action.

17. LOW NOR HIGH PITCH adjustment in 10 steps.

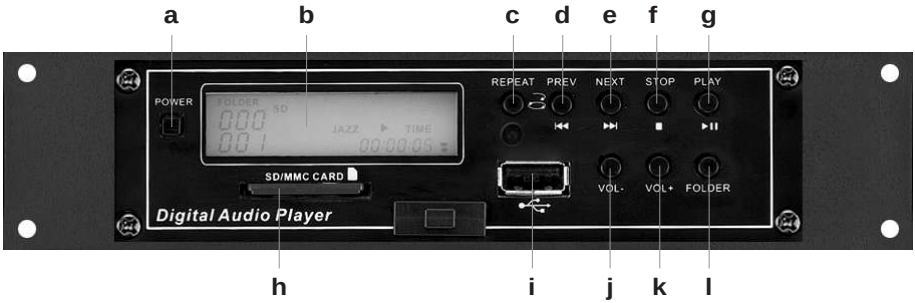
18. Please direct the remote control towards the sensor of CD-750S player. The effective working distance between remote control and CD-750S is best at 3 meters, max. 5 meters.

Battery Installation of Remote Control



1. Right push the latch in advance to pull out the battery compartment.
2. Insert CR2025 3V batteries in the battery compartment. The positive pole must face up.

UM-501P Digital MP3 Music Player



a. POWER: turn on the UM-501P player
b. LCD to show: folder number / track number / time duration / music source / playing mode / status displayed
c. REPEAT: set the track repeatedly
d. PREV / ⏮ : back to the previous track / folder
e. NEXT / ⏭ : reverse to the next track / folder
f. Stop / ■ : stop playing music
g. PLAY / ⏯ : play / pause
h. SD slot: insert SD memory card
i. USB port: connect with the USB source
j. VOL- / VOL- : volume down
k. VOL+ / VOL+ : volume up
l. FLODER / FLODER : to select the different folder from the current playing music source
m. MUTE / 🔇 : sound mute

UM-501P
remote control

Operation Indication of UM-501P

1. To connect your USB music source with UM-501P, it starts playing mp3 file automatically. The LCD shows the current folder / track number / playing duration.
2. When both of USB and SD card are connected with UM-501P, USB source is the priority for UM-501P to play. When disconnecting both of USB and SD card, UM-501P stops playing music and records the last playing folder / track number; to insert the same USB or SD card again, UM-501P starts playing from the previous recorded track.
3. To disconnect the USB or SD card after pressing STOP (f), UM-501P does not record the last playing folder / track number; to insert the same USB or SD card again, UM-501P starts playing the USB or SD cards from the beginning.
4. To take out the SD card, please push the card gently in advance, and then the card should eject automatically; to pull out SD card appropriately would cause the damage on SD card and also the music player.
5. Press button FOLDER (l) in advance to active the folder selection function. To select different folder by pressing NEXT (d), PREV. (e),and then press PLAY (g) to complete the folder selection.

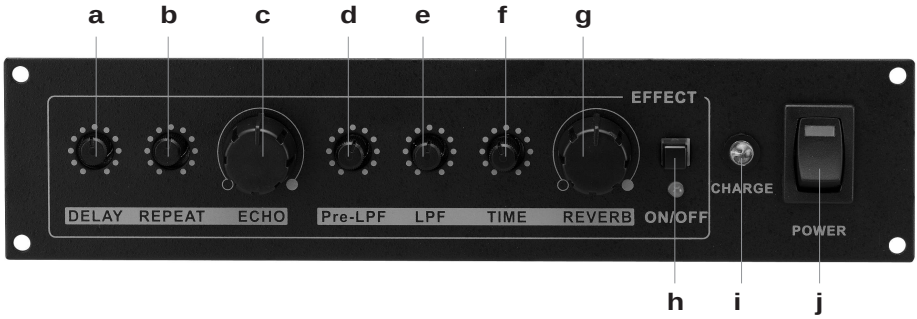
TX-701 UHF Wireless Transmitter Module

a. LCD: to show current channel / frequency displayed
b. TX Indicator: light green when TX-701 is on
c. AF LABEL indicators: light yellow when input signal of TX-701 has reached a minimum acceptable level; light red when the input signal of TX-701 has reached a maximum level before overloading
d. SET: press shortly to active the channel selection function
e. ▲/▼: up / down the selected channel
f. VOLUME / POWER control: turn clockwise till a "click" to power on also for volume up and vise versa
g. CHARGE: charging indocator
h. POWER: main power switch of GPA-800

Operation Indication of TX-701

For the requirement of connecting various active speakers in a big operating area, TX-701 module provides an effective solution as wireless audio link.
It works by locating one GPA-800 with TX-701 module as the master control in advance, and then transmitting signals from different sources of master (including wireless / wired microphone, CD / MP3 music etc.) to other active speakers (including OKAYO GPA-500 / GPA-750 / GPA-800 system) with corresponding receiver module DR-701.

RM-800 Digital Reverb Module

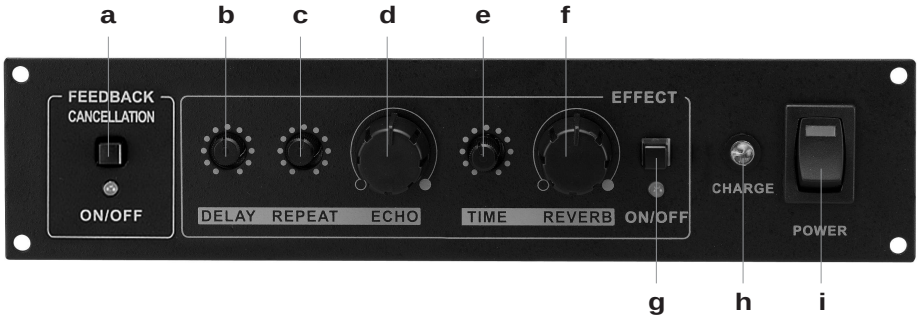


a. DELAY: echo delay control
b. REPEAT: echo repeat control
c. ECHO: echo volume control
d. Pre-LPF: reverb pre-low pass filter control
e. LPF: reverb low pass filter control
f. TIME: reverb time control
g. REVERB: reverb volume control
h. ON/OFF: effect switch to active other effect controlling knob
i. CHARGE: charging indicator
j. POWER: main power switch of GPA-800W

Operation Indication of RM-800

1. Rotate volume of ECHO (c) and REVERB (g) to the lowest level in advance; turn on the main POWER switch (j), and active other effect controllers by switching ON/OFF (h).
2. Adjust DELAY (a), REPEAT (b) and ECHO volume (c) of echo effect according to user's preference.
3. Adjust Pre-LPF (d), LPB (e), TIME (f) and REVERB (g) of reverberation effect according to user's preference.
4. DELAY (a), REPEAT (b), Pre-LPF (d), LPF (e) and TIME (f) set in the middle to keep preforming the original sound signal.

FB-800 Digital Feedback Module



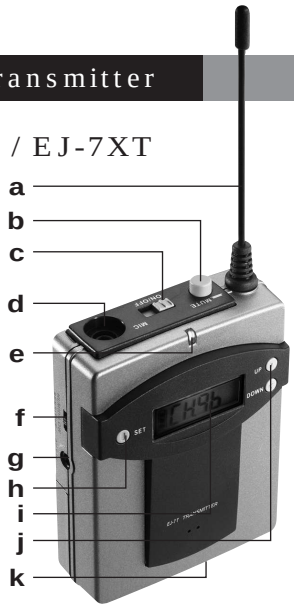
a. FEEDBACK CANCELLATION ON/OFF: switch of feedback cancellation
b. DELAY: echo delay control
c. REPEAT: echo repeat control
d. ECHO: echo volume control
e. TIME: reverb time control
f. REVERB: reverb volume control
g. ON/OFF: effect switch to active other effect controlling knob
h. CHARGE: charging indicator
i. POWER: main power switch of GPA-800W

Operation Indication of FB-800

1. Press FEEDBACK CANCELLATION (a) button to active the cancelation function when the feedback volume is too high to control in the application.
2. Rotate volume of ECHO (d) and REVERB (f) to the lowest level in advance; turn on the main POWER switch (j), and active other effect controllers by switching ON/OFF (g).
3. Adjust DELAY (b), REPEAT (c) and ECHO volume (d) of echo effect according to user's preference.
4. Adjust TIME (e) and REVERB volume (f) of reverberation effect according to user's preference.
5. DELAY (b), REPEAT (c) and TIME (f) set in the middle to keep preforming the original sound signal.

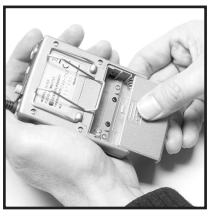
UHF Bodypack Transmitter EJ-7T / EJ-7XT

a. Antenna
b. MUTE control: press one time to mute the mic-in signal; press again back the normal
c. Power switch ON/OFF
d. 3.5mm push-in jack (EJ-7T)
   3-pin mini XLR jack (EJ-7XT)
e. Power indicator: light red when the unit is on
f. SENSITIVITY switch: HI/MID/LOW three levels
g. 3.5mm AUX IN
h. SET: active the channel selection function
i. LCD: channel / battery status / frequency displayed
j. UP/DOWN: channel adjustment buttons
k. Charging pins



Battery Installation

Insert 2 pcs of 1.5V AA alkaline batteries or 1.2V AA rechargeable batteries into the battery case, and then close the battery door tightly.



Operation and Channel Selection of EJ-7T / EJ-7XT

1. Turn the power switch (c) on. The power indicator lights redly and LCD window displays [On] when the action is succeeded.

2. Channel setting and changing:
LCD window will display the selected channel, e.g. [CH.01] . Press SET button (h) for 2~3 sec to change current channel. When the channel number is glittering [CH01], change it to the preferred channel (ch1~ ch96) by pressing UP / DOWN button (j) and follow a press of SET (h) to fix this change.

※ Make sure transmitter and receiver are on the same channel.
※ When two receivers are used concurrently and required on different channels, simply follow above steps to set up.

3. Lapel microphone (LM-90A) and headset microphone (HM-50A) are recommended for EJ-7T. Lapel microphone (LM-90C) and headset microphone (HM-50C) are recommended for EJ-7XT.

Operation of UHF Wireless Bodypack Transmitter

- Variable sensitivity available (f) for personal preference or applied occasions.

  HI …..... High sensitivity
  MID ….. Middle sensitivity
  LOW … Low sensitivity

- Aux in …For external audio input (g), e.g. MP3.

- MUTE … Press MUTE button while the transmitter is not in use temperately to enter into silence mode. Press it again to escape the mode.

- Power status could be identified easily from the battery icon shown on LCD window. Sufficient battery energy secures good quality in transmission. Please make sure the used transmitter is always powered sufficiently. The optional dual-slot charging stand HDC-707 / HDC-702 is designed to be an economic charging solution.

CAUTION!

※ Only Ni-MH rechargeable batteries are allowed to be charged. It may arise leakage or explosion when charging unrechargeable batteries.
※ Please take out batteries if the unit isn't in use for a long time, in case any leakage may arise.

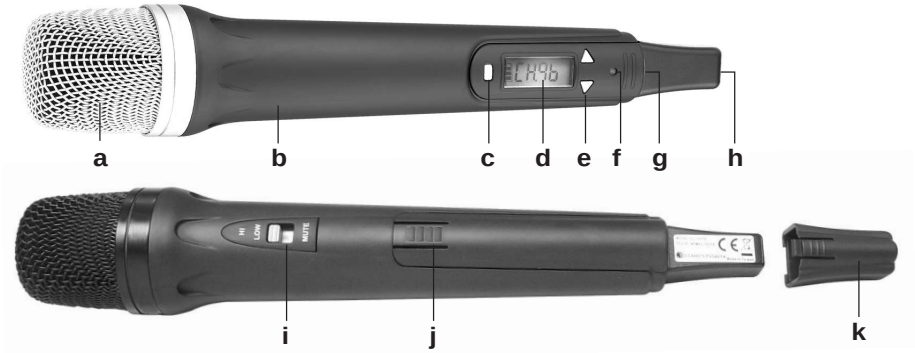
HDC-707

HDC-702

Safety Notes

1. Avoid rainfall or humid circumstance in case of any breakdown or electric shock.
2. Avoid to be squeezed, stroke and dropped.
3. Only official power supply recommended using, in case of any breakdown or danger.

UHF Handheld Microphone EJ-701TS / EJ-701TM



a. Wind grill
b. Rubberized body
c. SET: active the channel selection
d. LCD: channel / battery status / frequency displayed
e. UP / DOWN channel selector
f. LED power indicator
g. Power switch
h. Charging port
i. HI / LOW / MUTE: sensitivity selector
j. Battery cover
k. Button cap

Battery Installation

- Take off button cap (k) and pull off battery cover (j). Insert batteries correctly. (two AA 1.2 V NiMH rechargeable or 1.5 V Alkaline batteries)
- Put the button cap (11) back. This movement ensure the battery cover is locked and to prevent fall off. Insert 2pcs of 1.5V AA alkaline batteries or 1.2V AA rechargeable batteries into the battery case, and then close the battery door tightly.

CAUTION !

※ DO NOT use larger capacity battery. (e.g. over 2300 mAh the Ni-MH battery might be stocked in battery room and can't be taken out!)

Operation of UHF Wireless Handheld Micrphone

Operation and Channel Selection of EJ-701TS / EJ-701TM

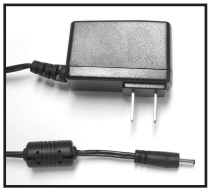
1. Press power switch (g) and hold 2~3 sec to power on EJ-701TS/ EJ-701TM. The power indicator (f) will light up and LCD (h) will show "ON" and current channel.
2. Channel selection: press SET button (c) for 3 sec to active the channel selection function. When LCD starts glittering, the user can change channel from CH1 to CH96 by pressing UP/ DOWN button (f). Press of SET (c) again to fix the selected channel.
3. Make sure transmitter and receiver are on the same channel.

(i) HI …..... High sensitivity
LOW ….. Low sensitivity
MUTE … Silence

When the microphone is not in use temporarily, switching it to MUTE mode can avoid any undesired signal being transmitted. Select HI / LOW sensitivity according to personal preference or application.

Power status could be identified easily from battery icon shown on LCD window. Sufficient battery energy secures good quality in transmission. Please make sure the used microphone is always powered sufficiently.

EJ-701TS / EJ-701TM Charging Indication



When the power of battery (Ni-MH rechargeable) is insufficient, simply recharge to batteries via switching power adapter. This switching power adapter (5 V / 1 A) is an optional accessory, please contact local dealer for the need.

CAUTION !

※ Only Ni-MH rechargeable batteries allowed to be charged. It may arise leakage or explosion when charging to general batteries.
※ Please take out batteries if the unit isn't in use for a long time, in case any leakage arise.

Accessories

ST-750
Speaker stand

HDC-707
Dual-slot charger
(for two bodypacks)

HDC-702
Dual-slot charger
(for one bodypack and handheld)

CB-800
Dust cover

L-707N
Nylon holster
(for EJ-7T / EJ-7XT)

Fail to power on

Check all batteries are placed correctly and power sufficient.

LCD shows " Err " when power on

Please contact with your local supplier for programme resetting.

LCD window shows garbled information

Take out and reinstall the batteries.

No sound output, please double check:

- The transmitter and receiver are on same channel.
- The volume knobs on transmitter and receiver are on.
- MUTE button is not activated.
- The transmitter and receiver are on the same frequency band.
- Avoid any interference source in the surrounding.

Signal disturbance

While two transmitters are used concurrently, please make sure they are on DIFFERENT channel to reduce the probability of crosstalk. Also note that no other wireless device is used nearby during your operation.

Avoid heat, humidity

Do NOT put the unit in the sunshine for a long time, or any other hot, humid environments and places with flame. Stay away from any occasions which the above might occur. Choose cooler places to store the unit.

Charge BEFORE you start using for the fist time

After unpacking the unit for the first time, please charge the unit for about 8 hours. This is absolutely necessary as the built-in rechargeable batteries might have been discharged naturally due to long shipment and storage time, even though it has been fully charged in the factory prior to shipment. To secure a longer life for batteries, please DO execute this IMPORTANT process.

Charge fully

Ensure batteries are fully charged BEFORE you store it for a long period. To maintain a longer battery life and better performance, make sure you charge the batteries regularly every month.

※ Notice : when you need to use the unit again after a long period of stock, make suer you charge it fully for at least 8 hours BEFORE any operation.

※ Notice : please also charge this unit every time after operation to gain a longer battery life.

This unit has DOD (depth of discharge) protection design. After the Power Switch LED flashes red which means there isn't enough electricity (when operating via the batteries' power), this unit will turn off automatically to secure battery from deep-discharging damage. At this moment please immediately recharge your unit, do not continue operation.

- This unit has protection circuit against overcharge. After the batteries finish charging, the unit will stop charging automatically. You can still operate during charging.
  However, it is NOT recommended to keep the power cord plugged in continuously.

- **Replacing batteries**
  Make sure the substitute battery is with same specifications. Using incorrect batteries may lead to explosion or malfunction

- **Remove the batteries in the transmitters if for a long while you are not going to use it.**

- **Transmitter's battery terminals**
  Before operation, ensure battery contacts are clean and free of corrosion. If corrosion occurs, please replace it or contact your place of purchase if service is required.

Wireless Portable Sound System GPA-800W

Output power	100 Watt (RMS), 140W (MAX) @ 4 Ω
Frequency response	20 Hz ~ 20 kHz (audio)
T.H.D.	< 1 %
Speaker	10” LF woofer, 1" HF tweeter
CD player (option)	CD + MP3 music player function
Receiver module (option)	DR-701 (diversity) x 2
Antenna	Built-in antenna
Audio input	XLR - Mic in, 6.5 mm - Mic in, RCA - Line in, 3.5 mm - Aux in
Audio output	RCA - Line out, 3.5mm - Aux out
Volume control	Wireless / MIC / Bass / Treble / Master / AUX / LINE
Power supply	Built-in 100~240 VAC switching power supply
Battery	12V, 4.5 Ah x 2 pcs Lead-Acid rechargeable batteries
Operating time	4 ~ 6 hours
Charging time	5 hours
Operating distance	50 ~ 60 meters
Dimensions	(D) 310 x (W) 360 x (H) 580 mm
Weight	20 kg (batteries included)
Carrier frequency range	Group (1) 640~664 MHz (96 ch.) Group (2) 740~752 MHz (96 ch.) Group (3) 794~806 MHz (96 ch.) Group (4) 863~865 MHz (16 ch.)

UHF Wireless Bodypack Transmitter EJ-7T / EJ-7XT

Mic capsule	Condenser
Antenna	Flexible antenna
RF output	10 mW
Spurious emission	< 250nW
Audio input	Mic in, Aux in
Input jack	3.5mm push-in jack (EJ-7T) 3-pin mini XLR jack (EJ-7XT)
AF control	Mute button; Hi/Mid/Low switch
Battery	1.2V (Ni-MH, 1600 mAh) x 2pcs AA rechargeable batteries Or 1.5V x 2 pcs AA Alkaline disposable batteries
Battery autonomy	11 hours in Ni-MH. rechargeable batteries 14 hours in Alkaline disposable batteries
Housing	Aluminum
Size (D x W x H)	26 x 64 x 88 (mm)
Weight	170g (batteries included)

UHF Wireless Handheld Microphone EJ-701TS / EJ-701TM

Mic capsule	Dynamic (EJ-701TS); condenser (EJ-701TM)
Antenna	Built-in type
RF output	< 10 mW
Spurious emission	< 250 nW
AF control	Hi / Low / Mute switch
Battery	1.2V (Ni-MH, 1600 mAh) x 2pcs AA rechargeable batteries Or 1.5V x 2 pcs AA Alkaline disposable batteries
Battery autonomy	11 hours in Ni-MH. rechargeable batteries 14 hours in Alkaline disposable batteries
Size (D x H)	46 x 264 (mm)
Weight	280g (batteries included)

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